Annual Safety Refresher Training

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Refresher Training Topics

- Hazard Communication (HazCom)
- Lab Standard
- Chemical Hygiene Plan
- Personal Protective Equipment (PPE)
- Emergency Action Plans
- Industrial Hygiene Program
- Hazardous Waste Management
- Accident/Injury Reporting

Hazard Communication (HazCom)

- OSHA Standards 29 CFR 1910.1200
- "Right-to-Know" standard
 - Employer must provide information on potential chemical hazards in the workplace to employees
 - Includes full-time, part-time and temp and student employees
- Protect employees from health hazards associated with chemicals
- Ensure employees are not exposed above permissible limits
- Our HazCom Program includes:
 - Chemical inventory on file
 - Material safety data sheets (MSDS)
 - All chemicals must be properly labeled, handled and stored
 - Secondary labeling = chemical name, hazards, date, user
 - Responsibility of new chemicals (MSDS, SOPs, training) lies with originator (i.e. person who initiates purchase of substance, not the purchasing agent)

Hazard Communication (HazCom)



Lab Standard

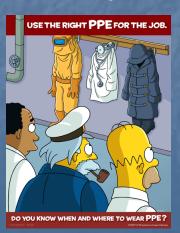
- More specifically, Occupational Exposure to Hazardous Chemicals in Laboratories (OSHA Standards 29 CFR 1910.1450)
- Key elements include:
 - Permissible exposure limits (PEL)
 - Regulatory limit on amount or conc. of substance in air
 - Based on 8-hr time-weighted average (TWA) exposure
 - Also, threshold limit values (TLV)
 - Exposure monitoring
 - Medical review
 - Chemical Hygiene Plan
 - Employee training

Chemical Hygiene Plan

- Written document which sets forth policies, procedures and general work practices to ensure protection from physical and health hazards associated with chemicals
 - General lab procedures
 - Procedures that require prior approval
 - Standard Operating Procedures (SOPs) for extremely hazardous materials
 - SOPs for each lab/field procedure
 - Identify hazards and appropriate safety precautions
- Main info
 - Use personal protective equipment (PPE)
 - Use fume hoods
 - Do not work alone
 - Do not eat/drink in the labs
 - Know location of safety equipment, MSDS, emergency phone #s

Personal Protective Equipment (PPE)

- OSHA Standards 29 CFR 1910.132
- Familiarize yourself with the potential hazards and the type of PPE available
- Select PPE that ensures worker protection from the hazard
- Make sure employee is aware of the properties and limitations of the PPE provided
- Common PPE:
 - Eye protection (safety glasses)
 - Hand protection (disposable gloves, leather gloves, oven mitts)
 - Foot protection (closed-toe shoes, work boots)
 - Protective clothing (lab coats, rubber aprons)
 - Hearing protection (earplugs)



Emergency Action Plans

- OSHA Standards 29 CFR 1910.38
- OSU calls this an Emergency Operations & Evacuation Plan (EOEP)
- Follow established building evacuation plans in the event of:
 - Fire
 - Chemical spills (depending on chemical properties)
 - Small (<1 gallon) = clean up yourself
 - Large = initiation evacuation, call EHS (292-1284)
 - Hazardous material release
 - Bomb threats, threats of violence
 - Earthquakes
- Utilize emergency communications: phone, fire alarm, radio

Industrial Hygiene Program

- Identifies potential exposures
- Exposure surveys
 - Occupational Medical Surveillance Program (OMSP)
 - ARS Form 182A
- Use of mechanical controls (i.e. fume hoods)
- Use of noise controls
- Formaldehyde SOP

Hazardous Waste Management

- No hazardous waste down the drains
- Collect hazardous waste in appropriate containers at point of generation
- Segregate waste streams
 - Chemical classes
 - Avoid dangerous mixtures
- Satellite accumulation
 - Keep amounts to minimum
 - Use secondary containment
 - Inspect weekly
- Keep records of amount and type of waste generated

Accident/Injury Reporting

	Minor	Major
Report it to	Supervisor	Supervisor
	CDSO = Eric	CDSO = Eric
		AO = Jim
Fill out	OSHA Form 301	OSHA Form 301
		DOL CA-1 (get supervisor signature etc.)

- OSHA Form 301 (Injuries and Illnesses Incident Report)
- Dept. of Labor CA-1 (Federal Employee's Notice of Traumatic Injury and Claim for Continuation of Pay/Compensation)